



DSC 2024 EUROPE VR

Driving Simulation & Virtual Reality Conference & Exhibition

18-20 SEPTEMBER 2024

Palais de la Musique et des Congrès, Strasbourg | France



KEYNOTE

9:00

Marius Dupuis : *ASAM Standards – From Simulation To SDV*



ASAM standards – From simulation to SDV

Collaboration for today's challenges

Marius Dupuis
Chief Executive Officer, ASAM e.V.

Sep 18th, 2024
Strasbourg, France



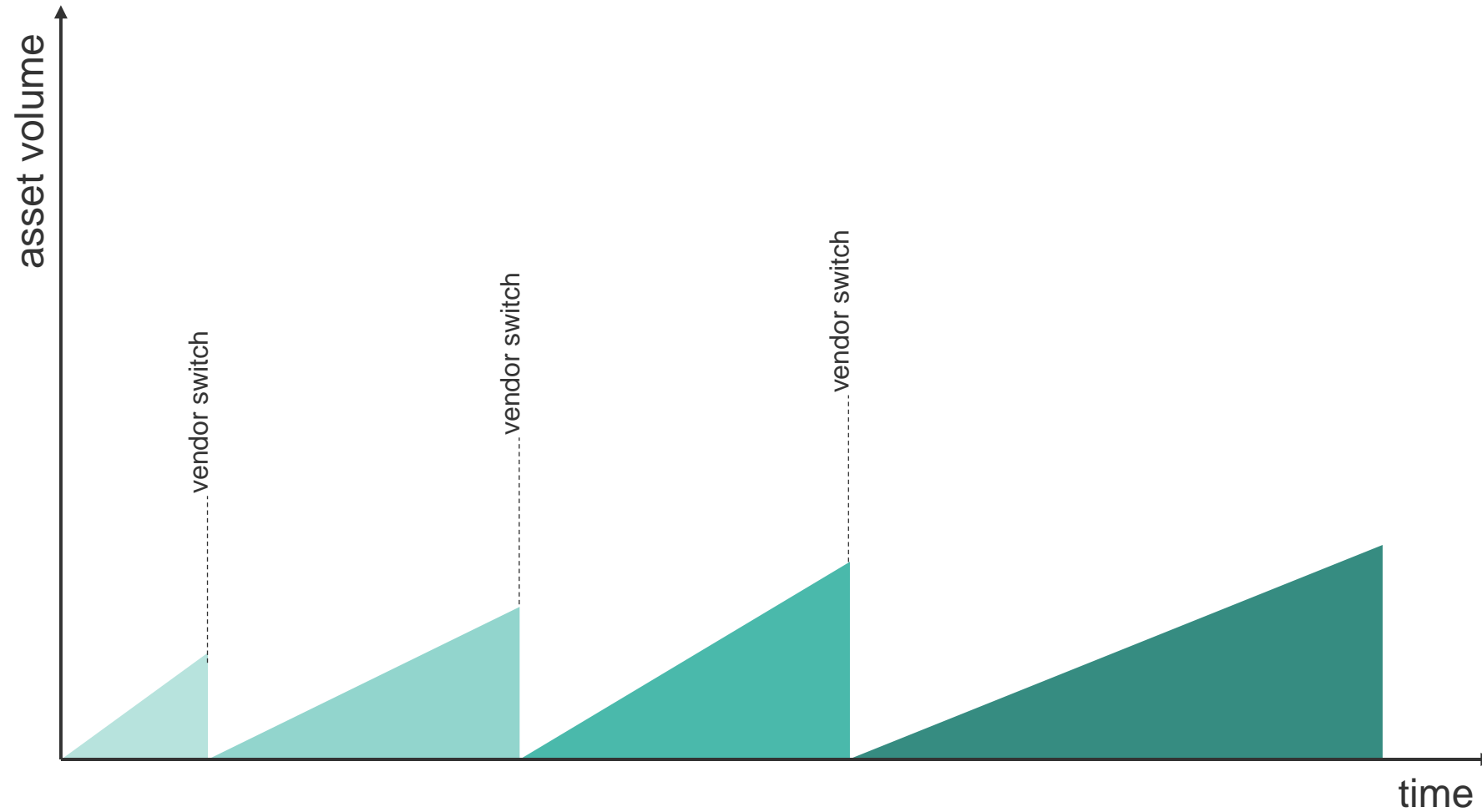
Association for Standardization of
Automation and Measuring Systems

The value of standards

It's a business model

The value of standards

Vendor lock-in is asset lock-in

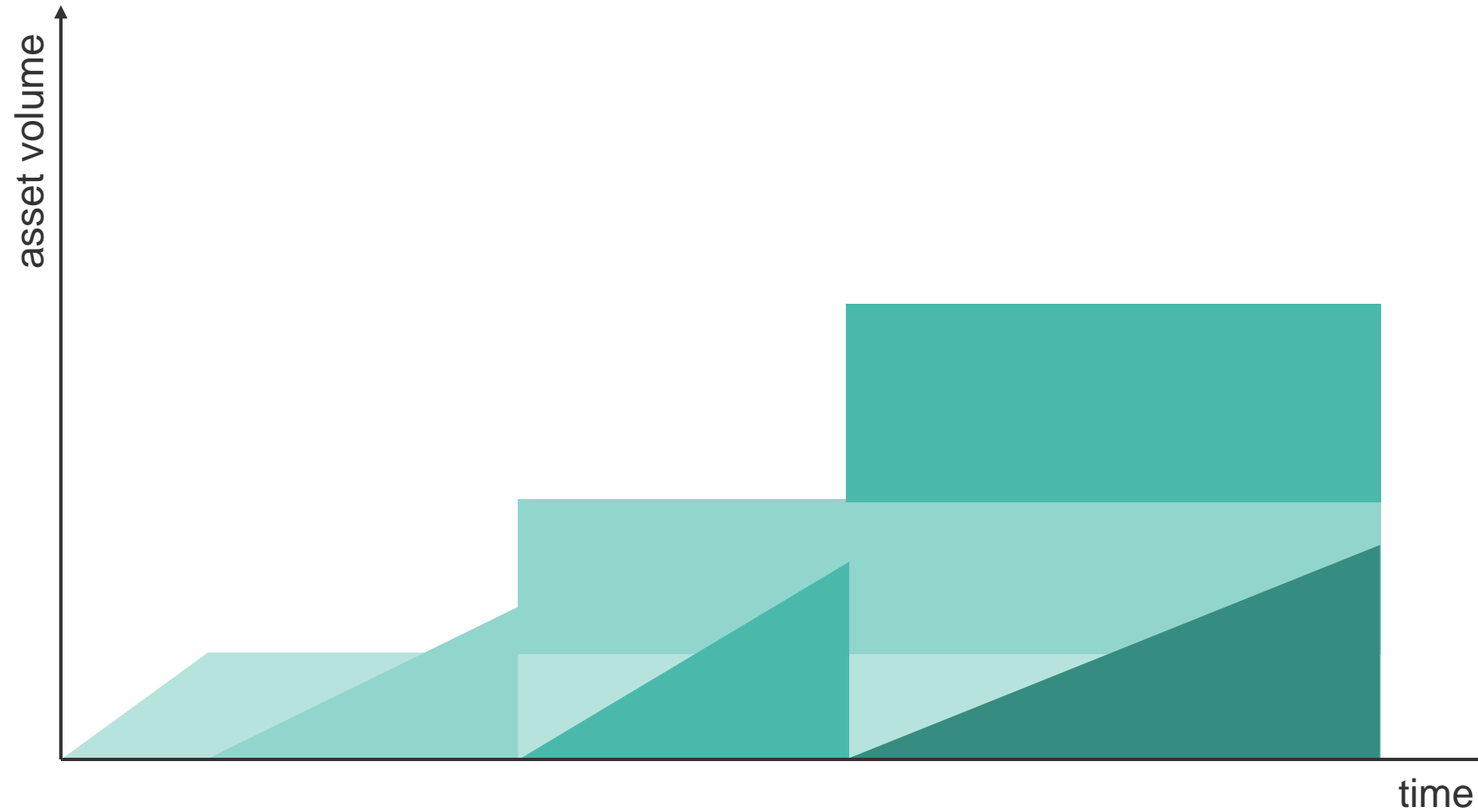


Without standards

Little to no reuse of assets upon vendor switch.

The value of standards

Standards preserve assets



With standards

Continuous build-up of assets across vendors.

OpenX: Life before ASAM

A brief history

OpenDRIVE

Where it all started



A road is a road is a road.

Sim A

Sim B



A road is different roads.

OpenDRIVE

Where it all started

Sim A

Sim B



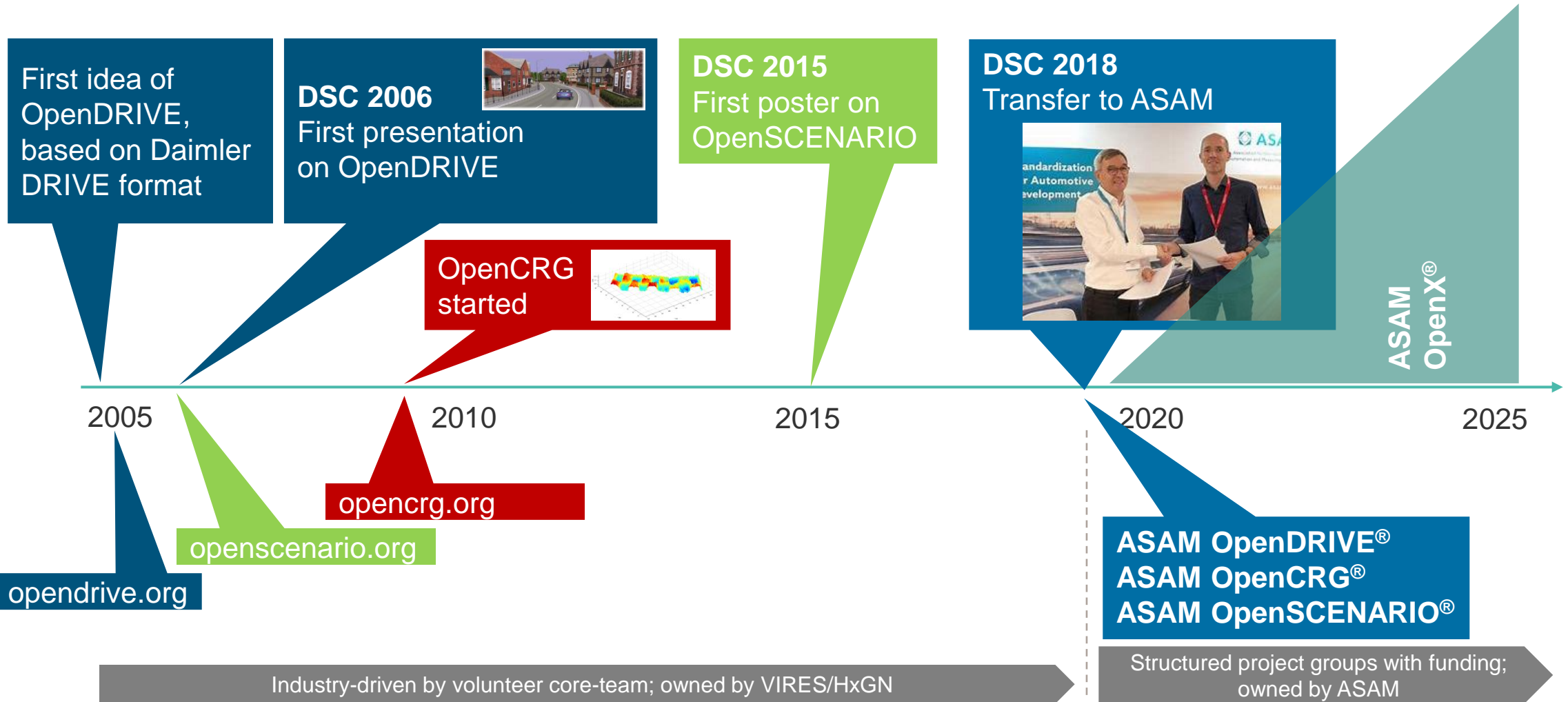
A road is a road is a road.



A road is an OpenDRIVE road.

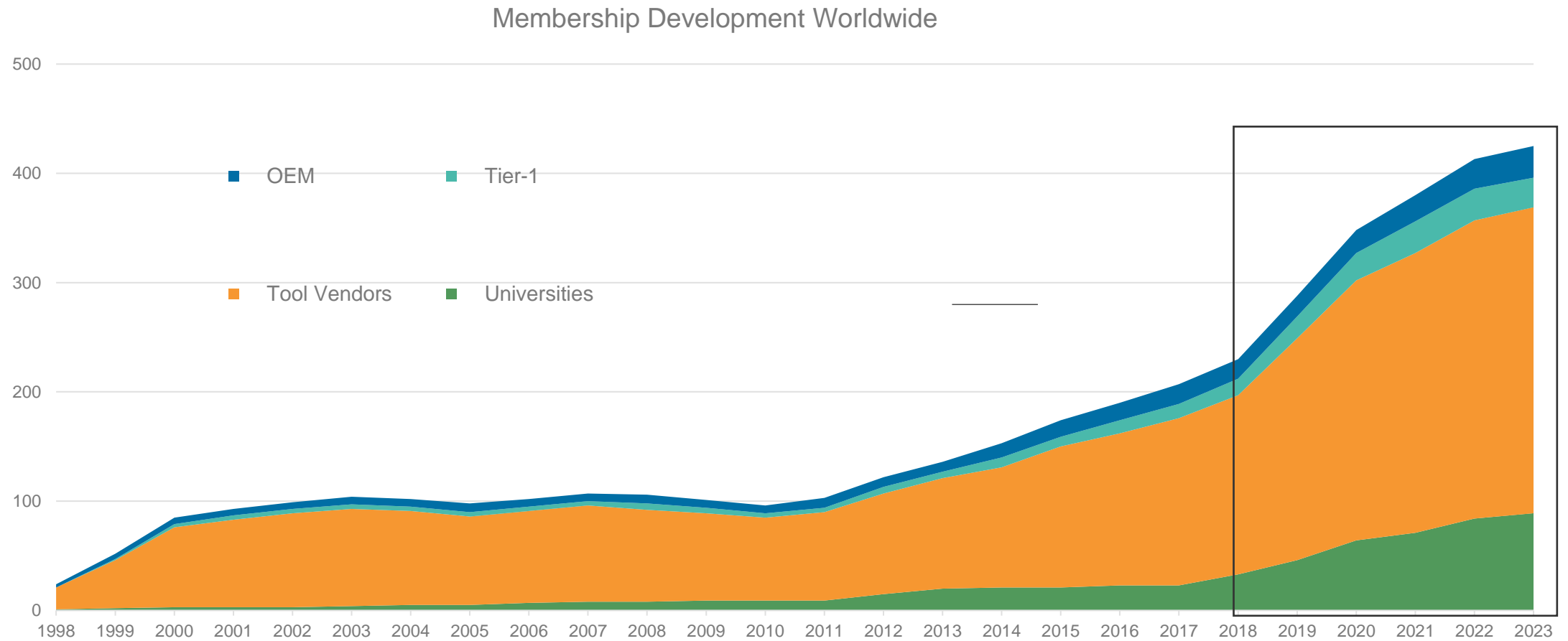
Milestones

How it worked



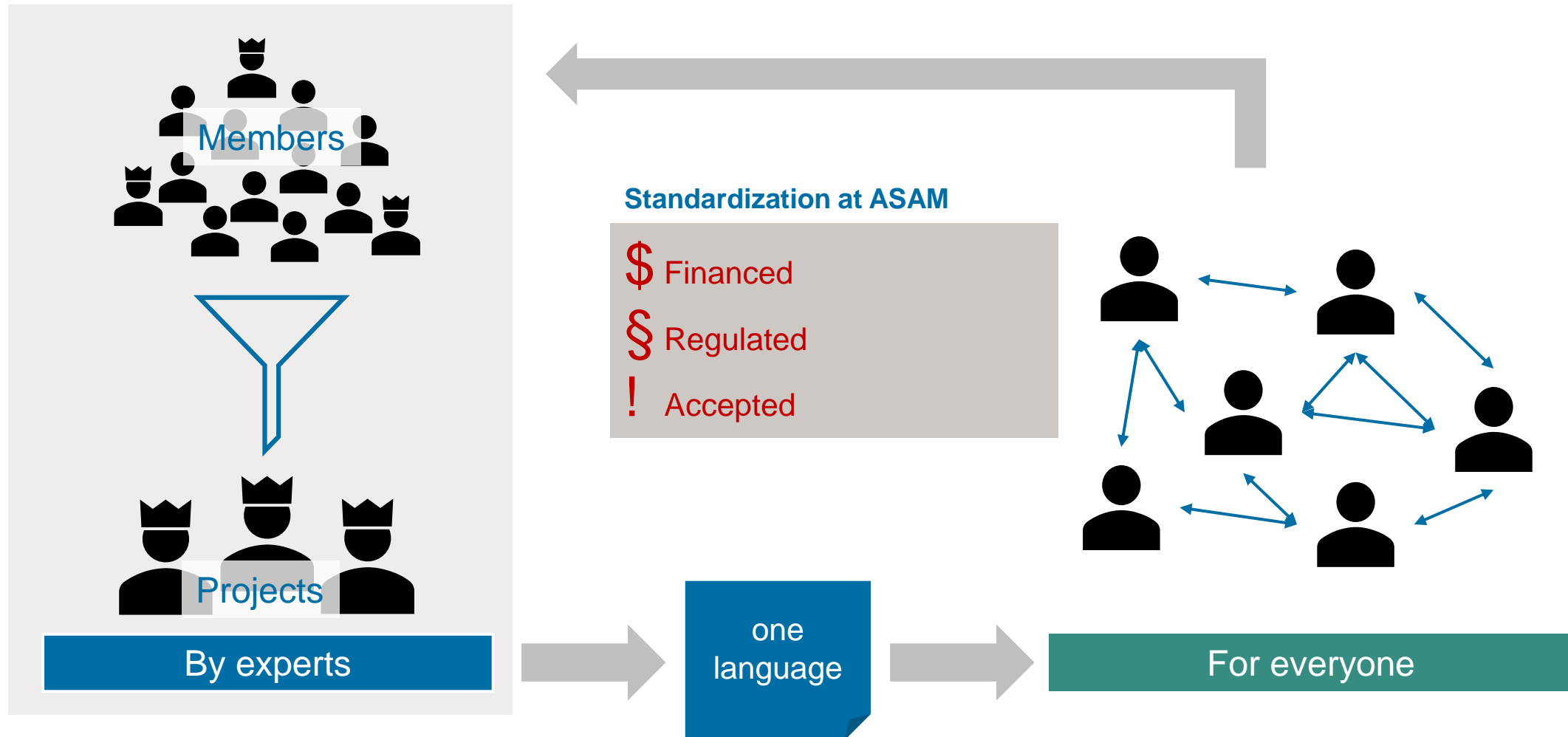
ASAM membership development: Simulation as a booster

Membership development over the past 25 years worldwide.



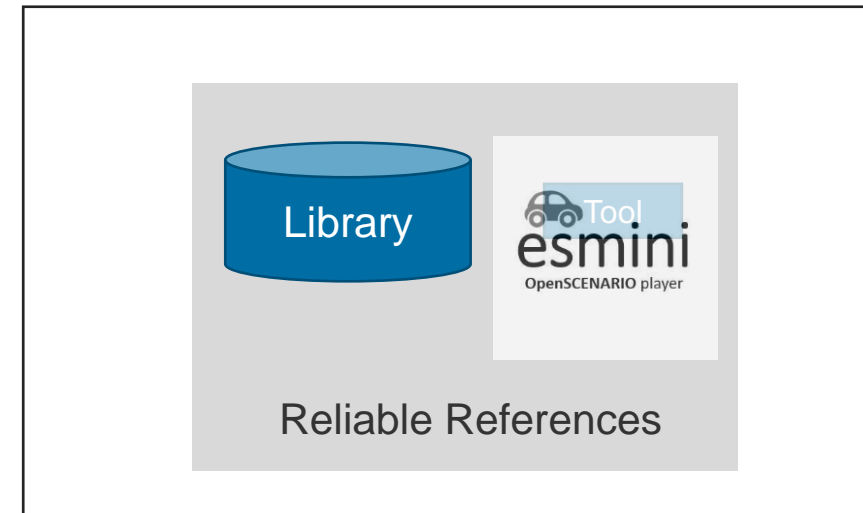
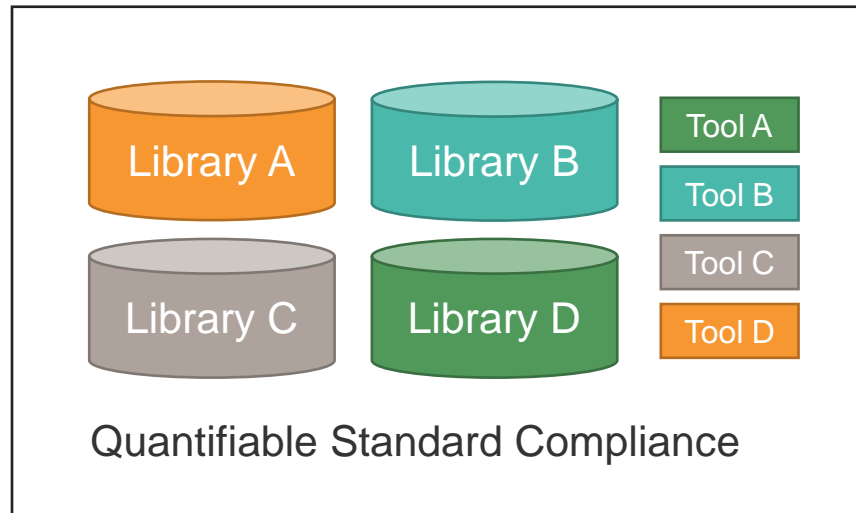
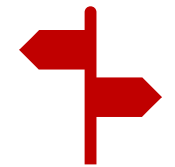
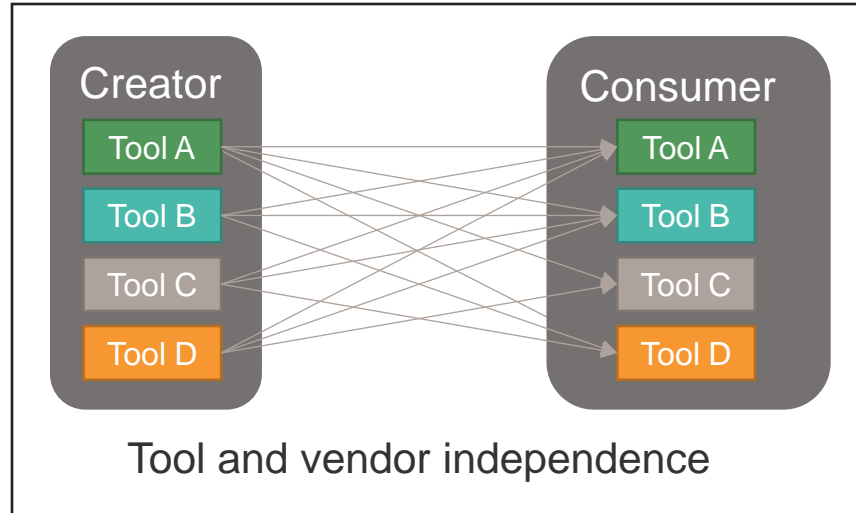
The essence of ASAM since 1998

How it works



The value of standards

There's a lot to gain



Lessons learned

After 19 years...

What we got right

Ownership
Availability
Dissemination
Format



What needs alignment

Interpretation
Implementation



How we address it

ASAM Quality
Checker

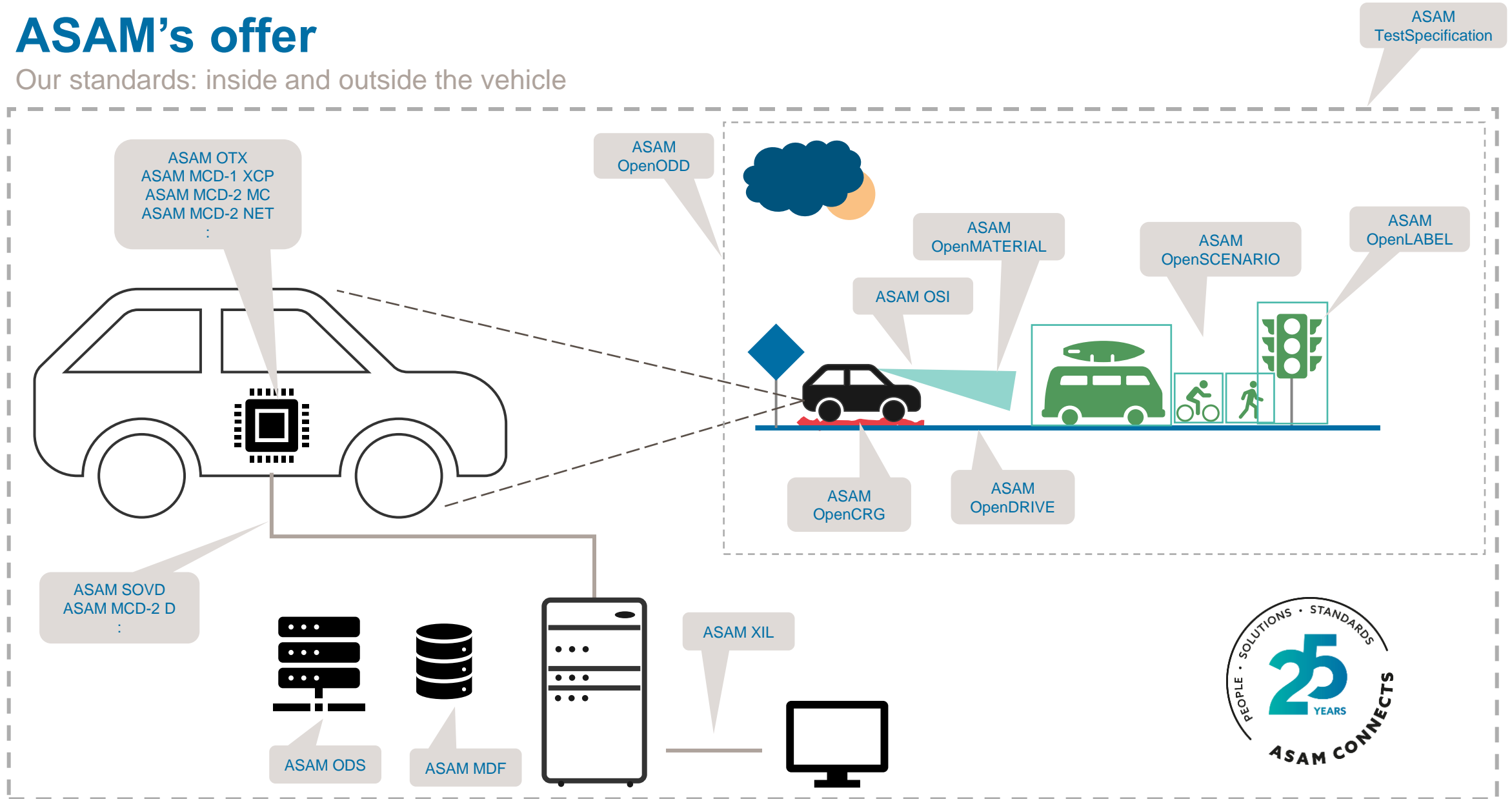
Quantifying
Simulation Quality
workshop

ASAM at full scope

There is more than OpenX

ASAM's offer

Our standards: inside and outside the vehicle



ASAM standards portfolio

38 standards across 7 domains

Simulation

- OpenCRG
- OpenDRIVE
- OpenLABEL
- OpenSCENARIO DSL
- OpenSCENARIO XML
- OSI

Data Management & Analysis

- CEA
- ODS

Test Automation

- ACI
- ASAP 3
- ATX
- GDI
- iLinkRT
- MCD-3 MC
- OTX Extensions
- XIL

Measurement & Calibration

- ARTI
- CDF
- CMP
- CPX
- HMS
- MCD-1 CCP / XCP
- MCD-1 POD
- MCD-2 MC
- MCD-2 CERP
- MDF

Diagnostics

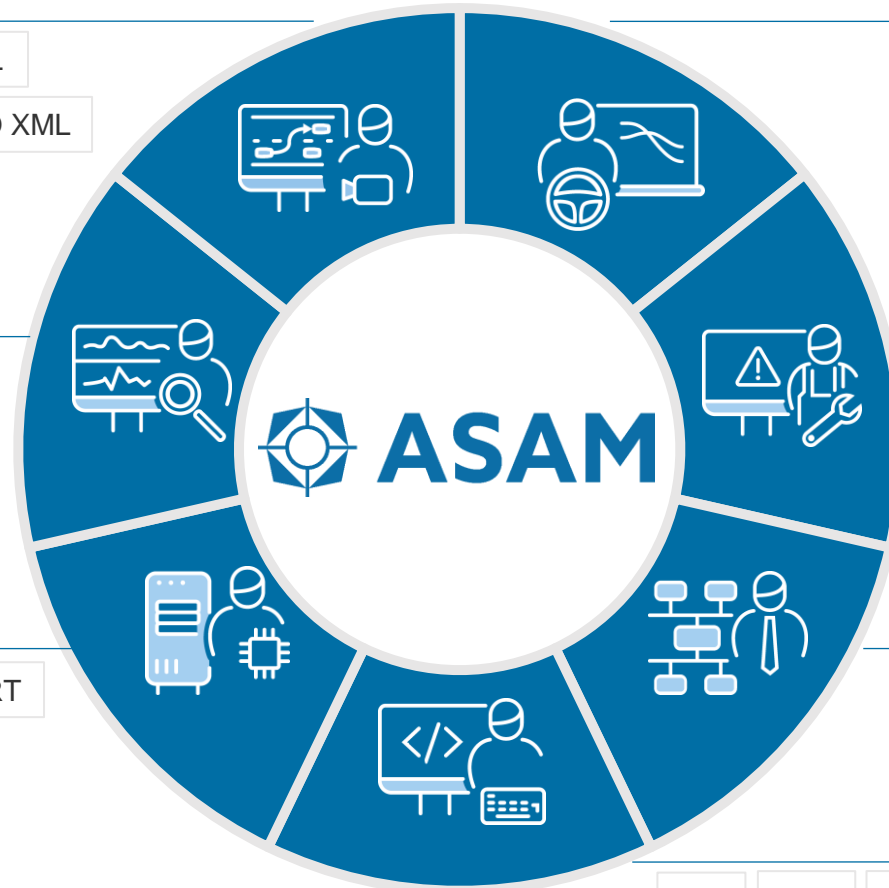
- MCD-2 D
- MCD-3 D
- SOVD

ECU Networks

- MCD-2 NET

Software Development

- CC
- FSX
- ISSUE
- LXF
- MBFS
- MDX
- SCDL

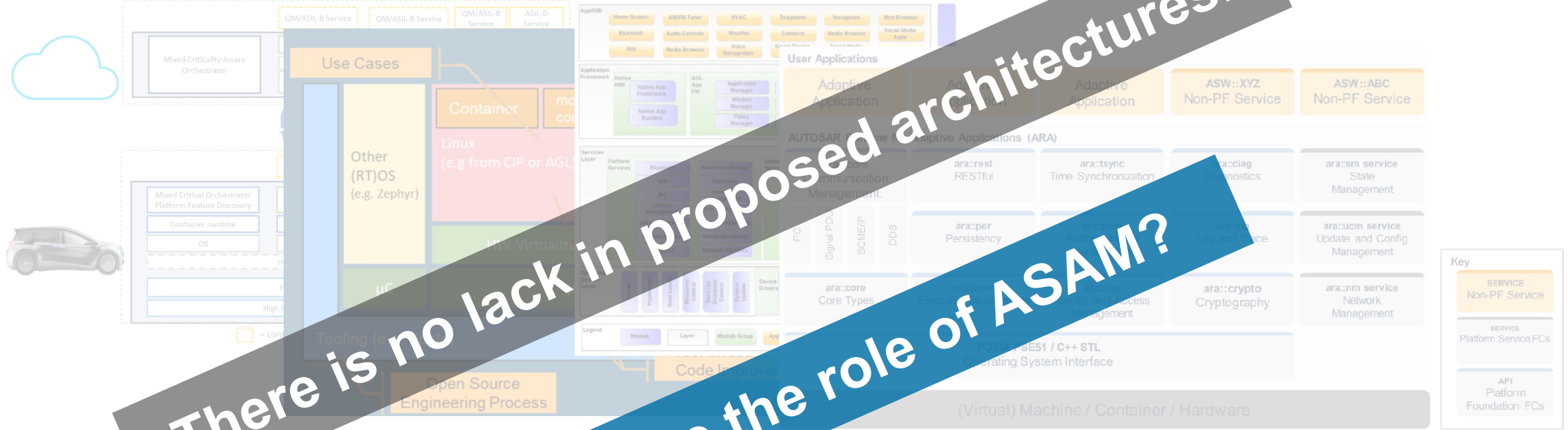


What's next? The software-defined vehicle

Different architecture, same challenges

The Software-defined Vehicle (SDV)

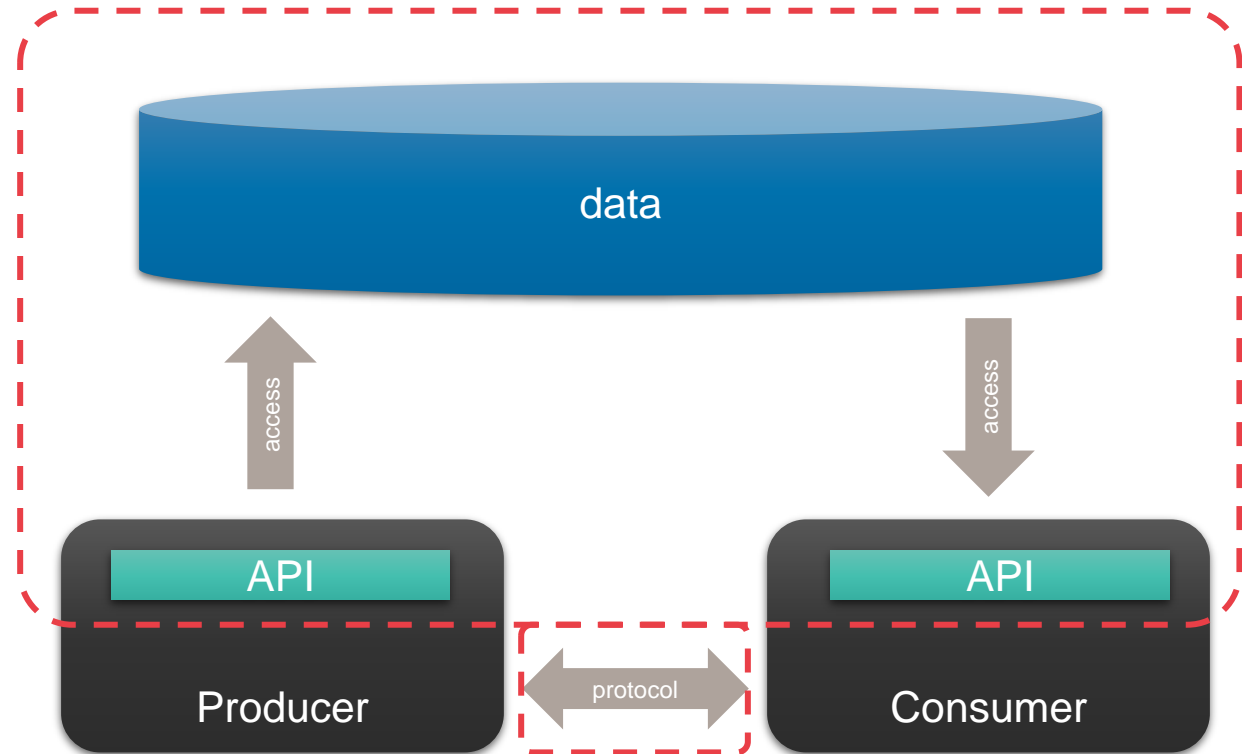
SOAFEE Cloud Native Architecture Vision
Framework for enabling mixed critical workload across cloud and vehicle



The software-defined vehicle (SDV)

ASAM's approach

ASAM = data-centric

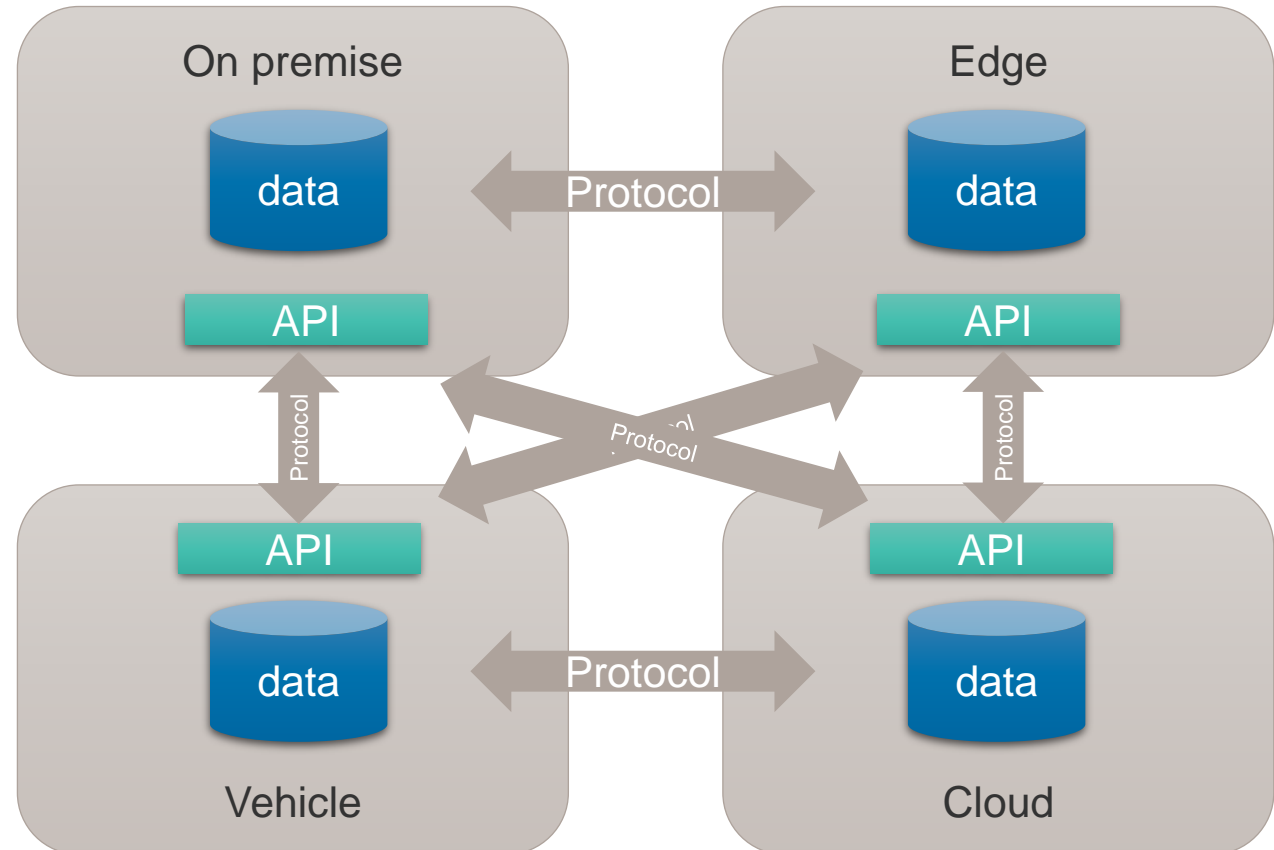


The software-defined vehicle (SDV)

ASAM's approach

ASAM = data-centric

ASAM = architecture-agnostic



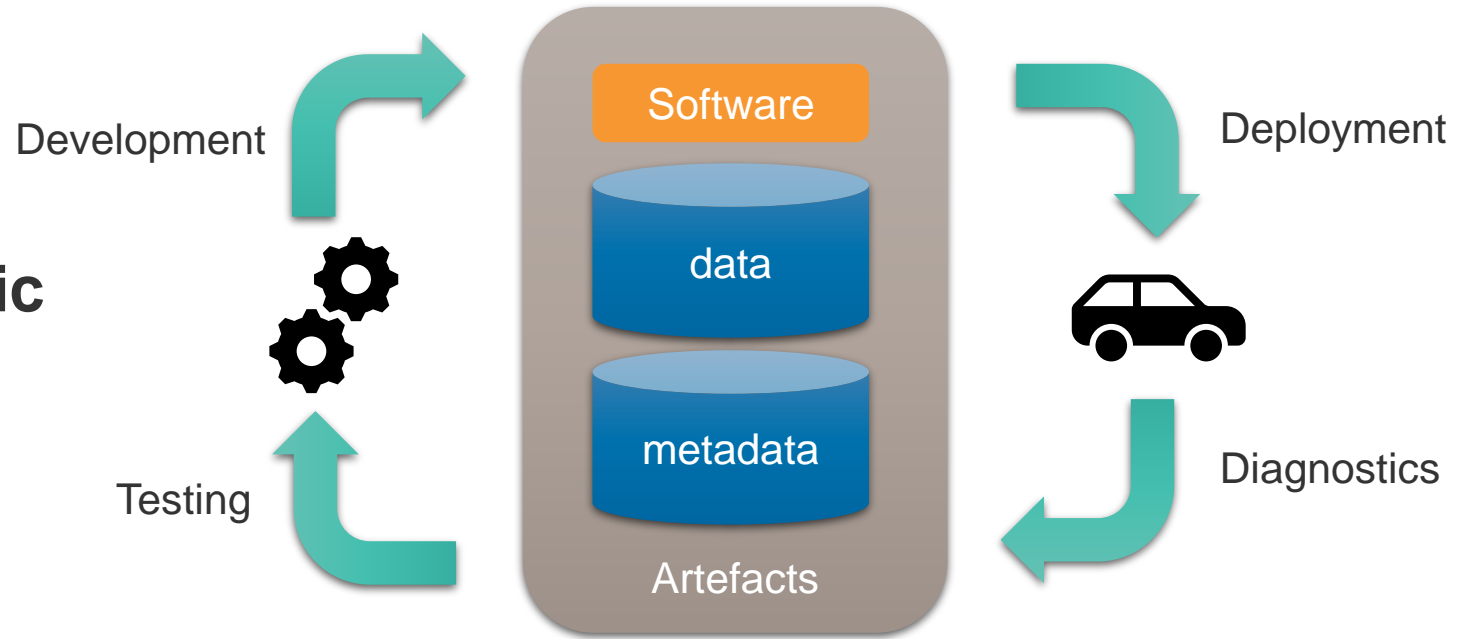
The software-defined vehicle (SDV)

ASAM's approach

ASAM = data-centric

ASAM = architecture-agnostic

ASAM = use-case driven



Concentration on
ASAM's core business.

Partnerships

The future

Where will ASAM go?

The future

ASAM 2025+

Vehicle



Mobility

New topics

- Offroad
- Test Specification
- Driver monitoring systems
- Quality quantification, etc.

Robustness

- Member-centric
- Regulatory framework
- Partnerships

**Continuous
improvement**

- Strategy
- Processes
- ASAM-Office

Conclusion

Why standards – why ASAM?

Conclusion



There is no standard answer

but **standards are key to the answer** – today and tomorrow!

ASAM activities

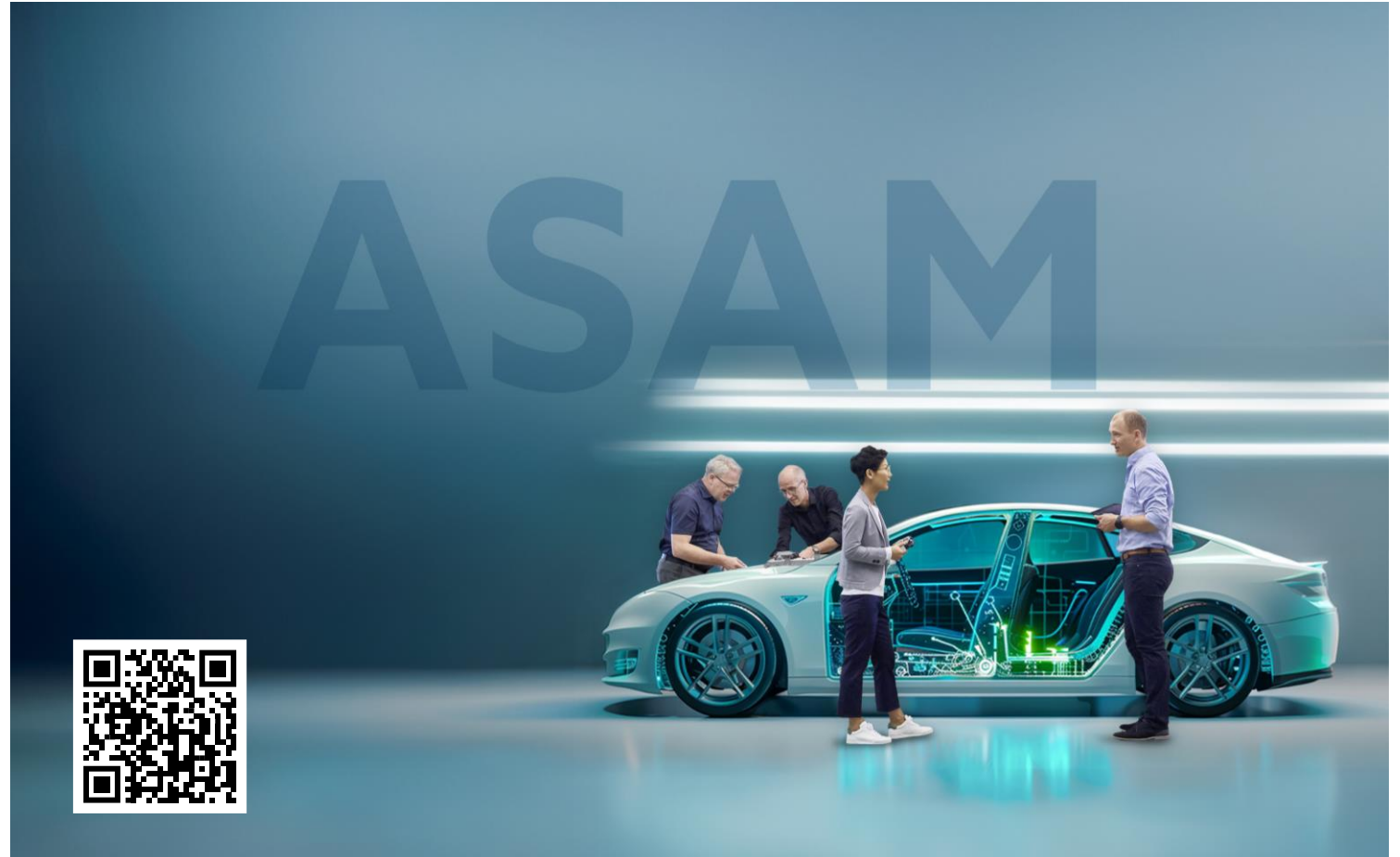
Use the chance to meet with members and non-members, and demonstrate your expertise!

ASAM INTERNATIONAL CONFERENCE

Dec 04 – 05, 2024, Munich

Topics

- ADS / AD
- SDV
- Connecting the dots
- The future of data recording
- AI
- and several more



Thank you for
your attention!

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